

LC420WX7-SLE1 Promotion

(120Hz HD)

Apr.16th, 2007



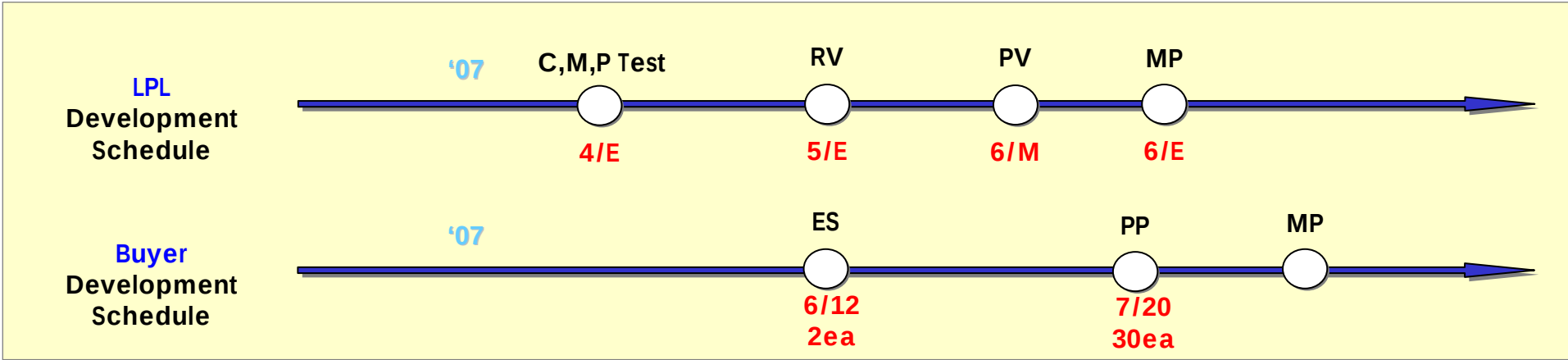
LG.PHILIPS LCD



❑ Specification

- | | |
|-------------------------------|---|
| • Resolution : WXGA(1366x768) | • Interface : LVDS 2Port |
| • Dimension: 983X576X51mm | • Color Temperature : 10,000K |
| • Luminance : 500nits | • Color Depth : 8bit (16.7M) / 10bit (1B) |
| • Response time : 10ms(MPRT) | • Color Gamut : 72% |
| • Contrast Ratio : 1000:1 | • ETC : Zero RT POL |
| • Viewing angle : 178/178 | |

❑ Development Schedule [Base on the ETD]



➤ Master

Customer Specification	LC420WX4-SLB1 [MP Model]	LC420WX7-SLE1 [NEW Model]	Note
Outline Dimension	983 x 576 x 51mm(with inverter)	←	
Brightness[nit]	500nit	←	
R/T(MPRT) [ms]	10 ms	←	
Color Gamut [%]	72%	←	
Viewing Angle [°]	178/178	←	
Contrast Ratio	Typ. 1000:1	←	
User Interface	LVDS 2Port	←	
Color Depth	8Bit / 10 Bit	←	
Color Temp.	10,000K	←	
# of Lamps	H-H (CCFL)	H-H (EEFL)	
Input Voltage	12V/24V	12V/24V	
Power Consumption	Logic:8.2W / Inverter:171W	Logic:8.2W (Not Fixed) / Inverter:162W (Not Fixed)	
Polarizer	ZRT	←	
Input Connector	51 pin	←	
Inverter Pin	M : 14Pin S : 12Pin	←	
Mounting Type	Rear Mount	Rear Mount / Front Mount	
Weight	Typ. 13.0Kg	Typ. 10.5Kg (Not Fixed)	
MP Plan	MP	07',6/B	

APPENDIX I. LVDS 51 Pin Configuration

- LCD Connector(CN1) : **FI-R51S-HF** (Manufactured by JAE) or Equivalent
- Mating Connector : **FI-R51HL** (Manufactured by JAE) or Equivalent

No	Symbol	Description	No	Symbol	Description
1	GND	Ground	27	BIT Select	Logic 'L' : 8bit, 'H' or 'NC' : 10bit
2	NC	No Connection	28	RE0N	SECOND CHANNEL 0-
3	NC	No Connection	29	RE0P	SECOND CHANNEL 0+
4	NC	No Connection	30	RE1N	SECOND CHANNEL 1-
5	NC	No Connection	31	RE1P	SECOND CHANNEL 1+
6	NC	No Connection	32	RE2N	SECOND CHANNEL 2-
7	LVDS Select	LVDS Format / Refer to Note 1	33	RE2P	SECOND CHANNEL 2+
8	VBR_EXT	External VBR input from System	34	GND	Ground
9	VBR_OUT	VBR output form LCD module	35	RECLKN	SECOND CLOCK CHANNEL C-
10	DCR Enable	DCR Selection / Refer to Note 2	36	RECLKP	SECOND CLOCK CHANNEL C+
11	GND	Ground	37	GND	Ground
12	RO0N	FIRST CHANNEL 0-	38	RE3N	SECOND CHANNEL 3-
13	RO0P	FIRST CHANNEL 0+	39	RE3P	SECOND CHANNEL 3+
14	RO1N	FIRST CHANNEL 1-	38	RE4N	SECOND CHANNEL 4-
15	RO1P	FIRST CHANNEL 1+	39	RE4P	SECOND CHANNEL 4+
16	RO2N	FIRST CHANNEL 2-	42	GND	Ground
17	RO2P	FIRST CHANNEL 2+	43	GND	Ground
18	GND	Ground	44	GND	Ground (NSB) / / Refer to Note 3
19	ROCLKN	FIRST CLOCK CHANNEL C-	45	GND	Ground
20	ROCLKP	FIRST CLOCK CHANNEL C+	46	GND	Ground
21	GND	Ground	47	NC	No connection
22	RO3N	FIRST CHANNEL 3-	48	VLCD	Power Supply +12.0V
23	RO3P	FIRST CHANNEL 3+	49	VLCD	Power Supply +12.0V
24	RO4N	FIRST CHANNEL 4-	50	VLCD	Power Supply +12.0V
25	RO4P	FIRST CHANNEL 4+	51	VLCD	Power Supply +12.0V
26	GND	Ground	-	-	-

APPENDIX II. Inverter Pin Configuration

❖ Inverter Pin Configuration(Equivalent to LC420WX4-SLB1 MP Model)

Pin No	Symbol	Description	Note
1	VBL	24V Input	
2	VBL	24V Input	
3	VBL	24V Input	
4	VBL	24V Input	
5	VBL	24V Input	
6	GND	GND	
7	GND	GND	
8	GND	GND	
9	GND	GND	
10	GND	GND	
11	VBR-A	Analog dimming	0V(min) ~ 3.3V(max) Open : VBR-A=1.65V
12	V On/Off	Backlight ON/OFF control	ON : 2.5 ~ 5.0V OFF : -0.3 ~ 0.8V
13	VBR-B	0.0V ~ 3.3V (DC)	0V(min) ~ 3.3V(max) Open : Duty=100%, if you don't use DCR function, please apply 3.3Volt or let it "Open".
14	NC	NC	NC

1. Master Connector

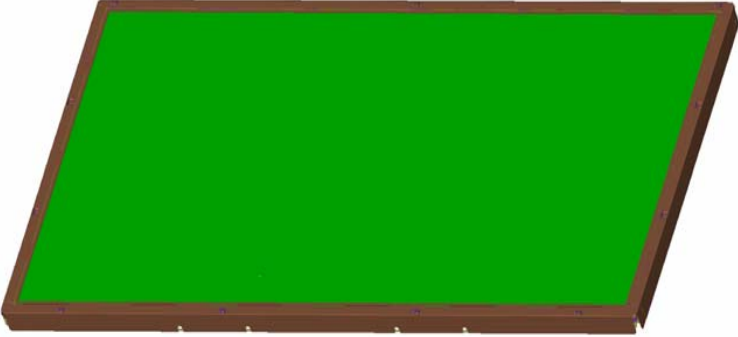
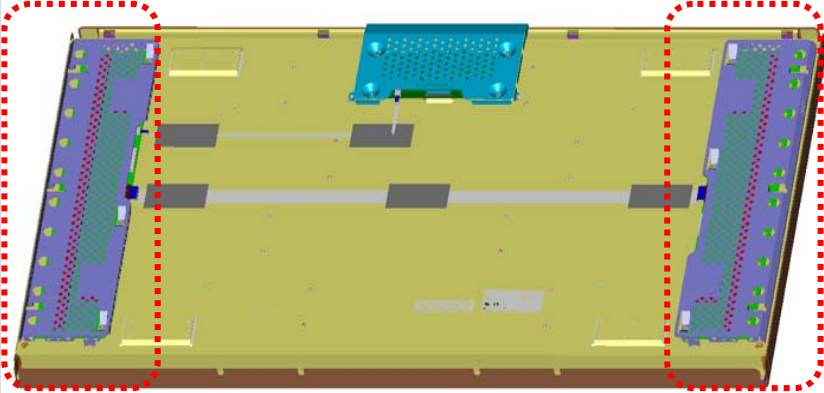
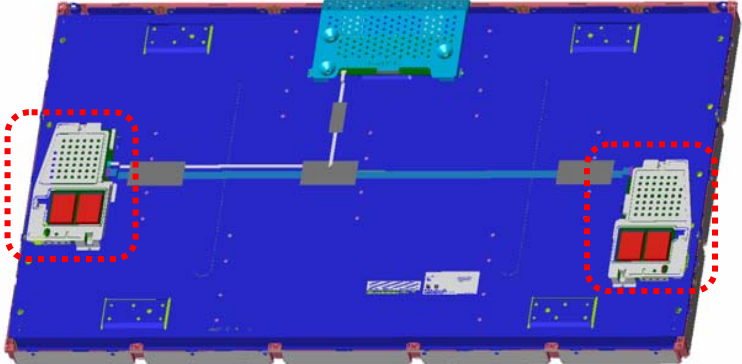
- 1) Connector(Receptacle)
: S14B-PH-SMC (manufactured JST) or Equivalent
- 2) Mating Connector (Plug)
: PHR14 (manufactured JST) or Equivalent

2. Slave Connector

- 1) Connector(Receptacle)
: S12B-PH-SMC (manufactured JST) or Equivalent
- 2) Mating Connector (Plug)
: PHR12 (manufactured JST) or Equivalent

*JST: Japan Soldeerless Terminal Co., LTD

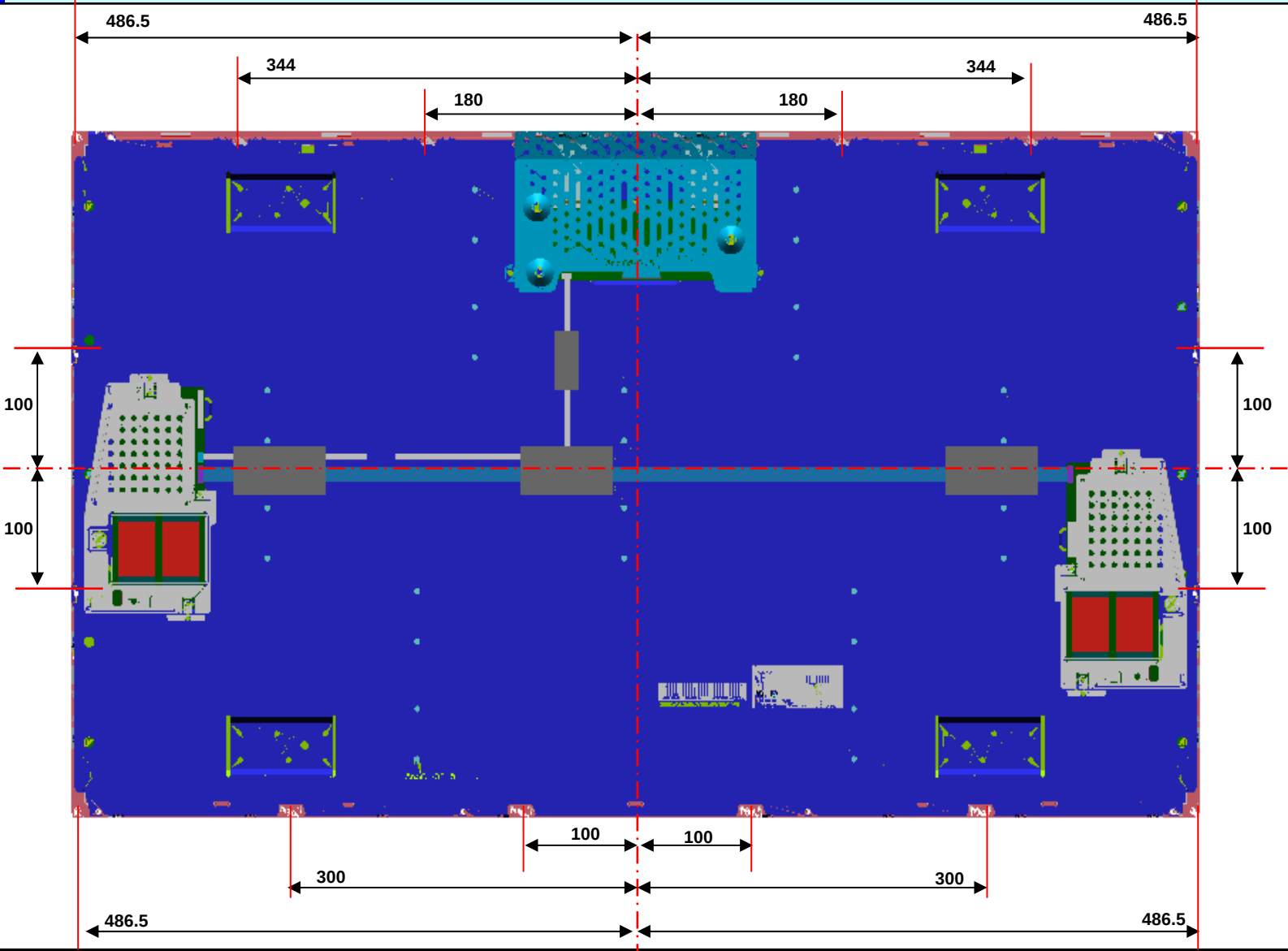
APPENDIX III. Mechanical Change [Overall]

Overall	LC420WX4-SLB1	LC420WX7-SLE1
Front		
Rear		
Remarks	1. Changed the user mount shape (Front Mount Applied : 12ea) 2. Changed Inverter Size 3. Changed shape of Cover Shield(Control PCB)	

Front	LC420WX4-SLB1	LC420WX7-SLE1
	Front User Mounting Hole : Nothing	 Corner : 4 ea  Left/Right : 4 ea  Down : 4 ea Corner Left/Right Down User Mounting Hole 6-M4
Remarks	1. User mount	

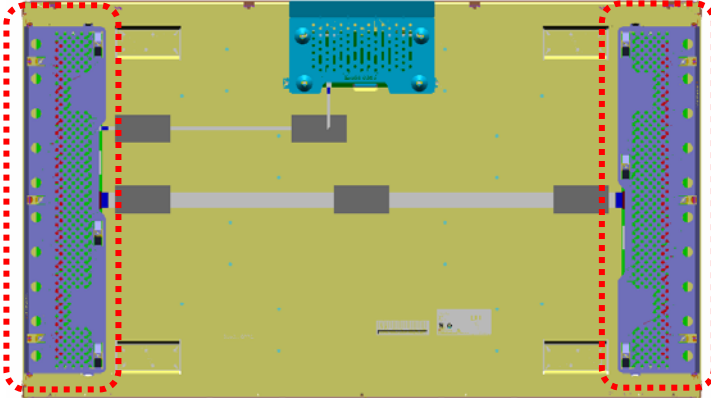
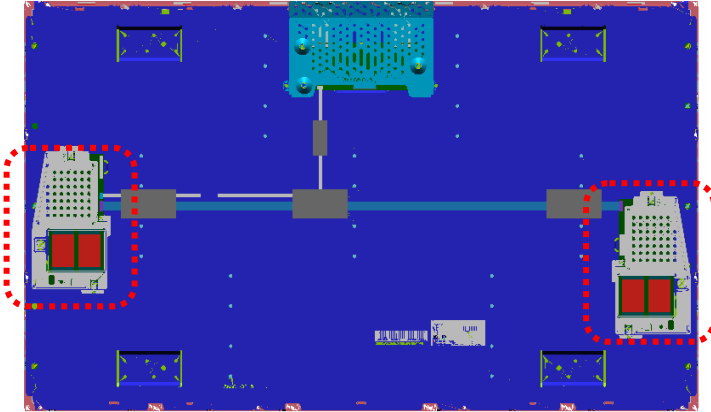
Rear

LC420WX7-SLE1 THM (Front Mount)

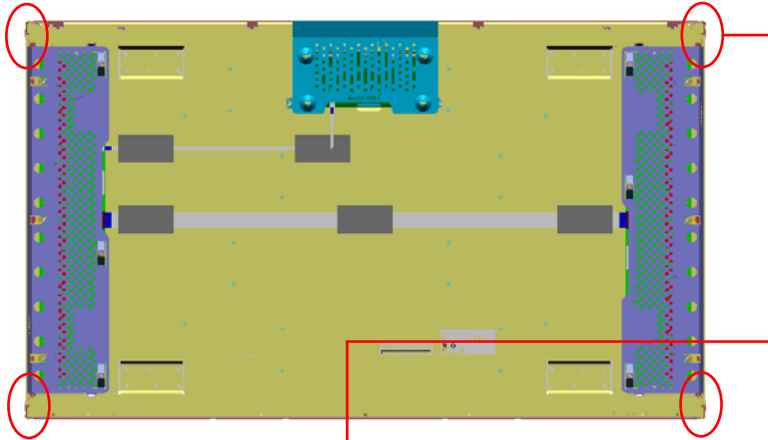
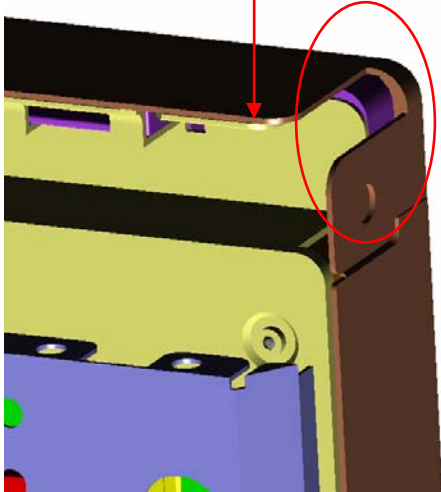
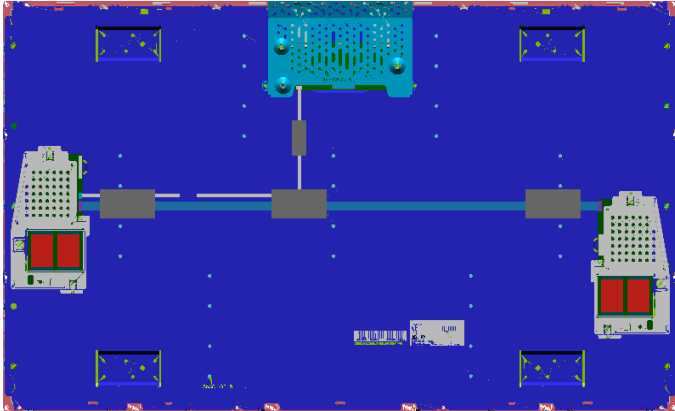
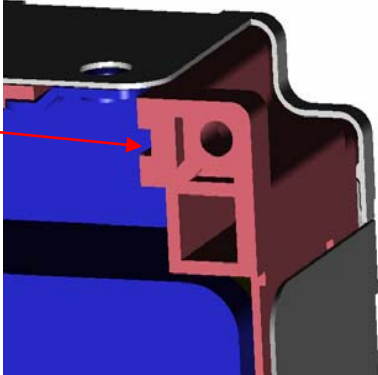


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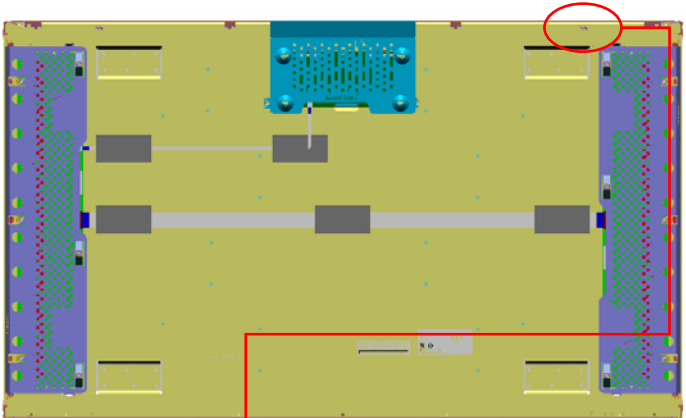
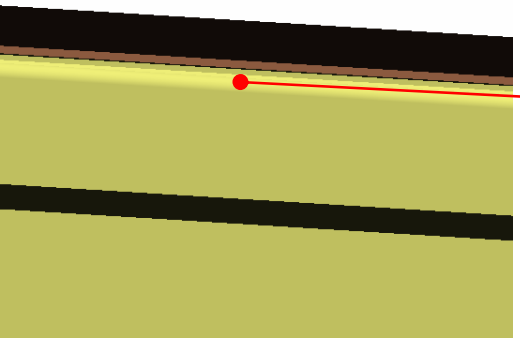
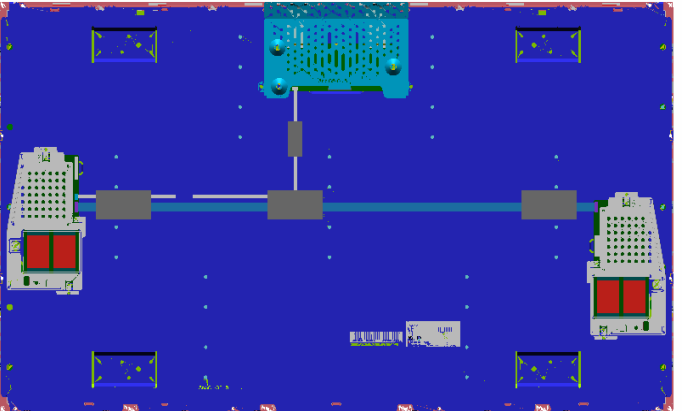
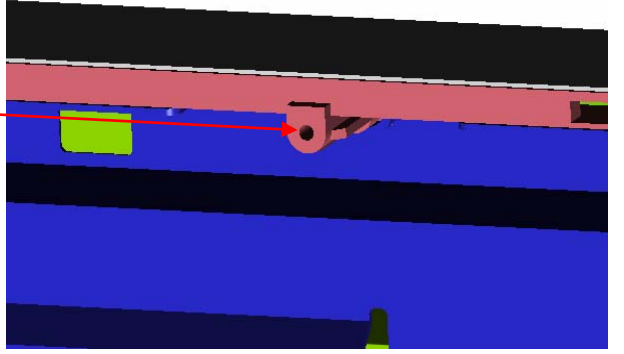
APPENDIX IV. Mechanical Change [Rear]

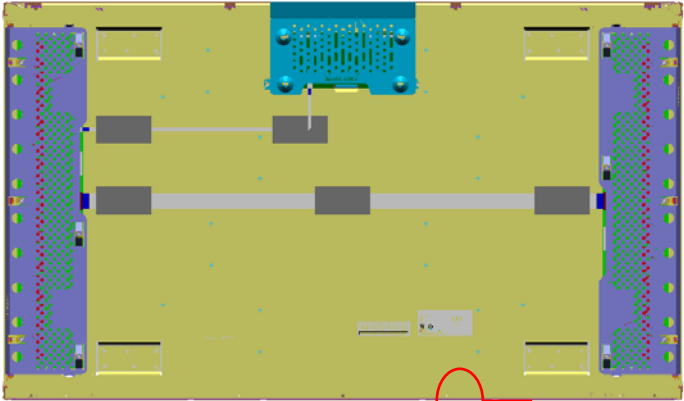
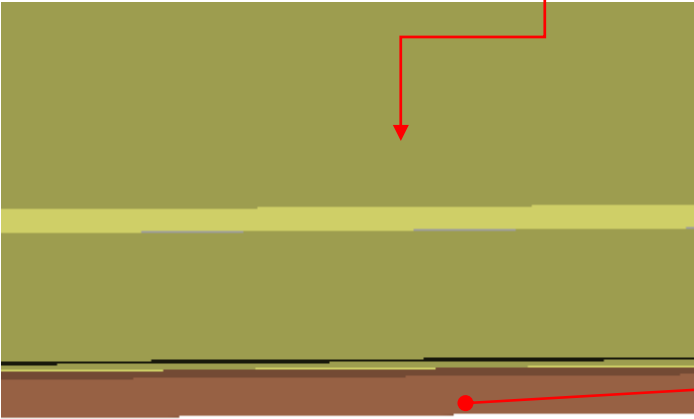
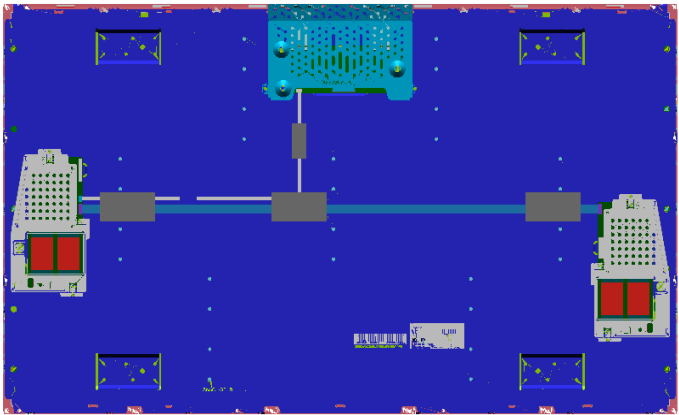
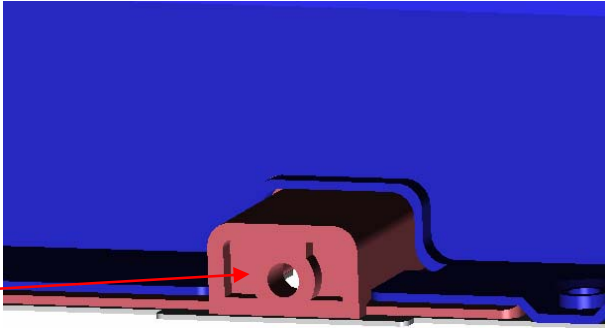
Rear	LC420WX4-SLB1	LC420WX7-SLE1
		
Remarks	1. Changed Inverter Size	

APPENDIX IV. Mechanical Change [Rear]

Rear	LC420WX4-SLB1	LC420WX7-SLE1
	 	 
Remarks	1. Changed corner shape. THM (Front Mount)	

APPENDIX IV. Mechanical Change [Rear]

Rear	LC420WX4-SLB1	LC420WX7-SLE1
	 	 
Remarks	1. Changed shape.	

Rear	LC420WX4-SLB1	LC420WX7-SLE1
	 	 
Remarks	1. Changed shape. THM (Front Mount)	

Side

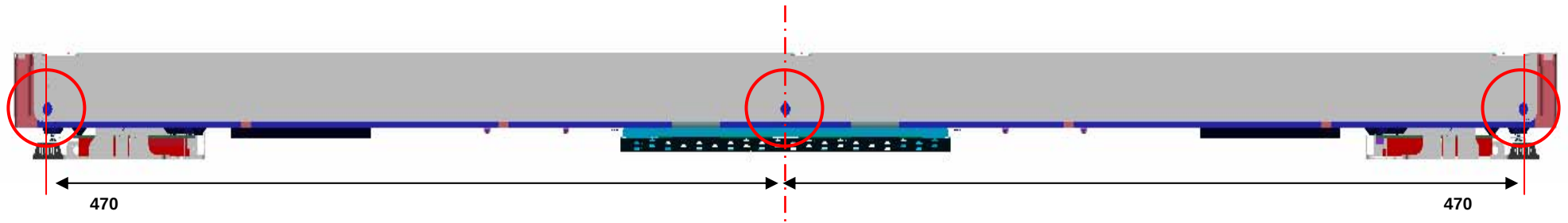
Top Side Mount

LC420WX4-SLB1



Non-Side Mount

LC420WX7-SLE1

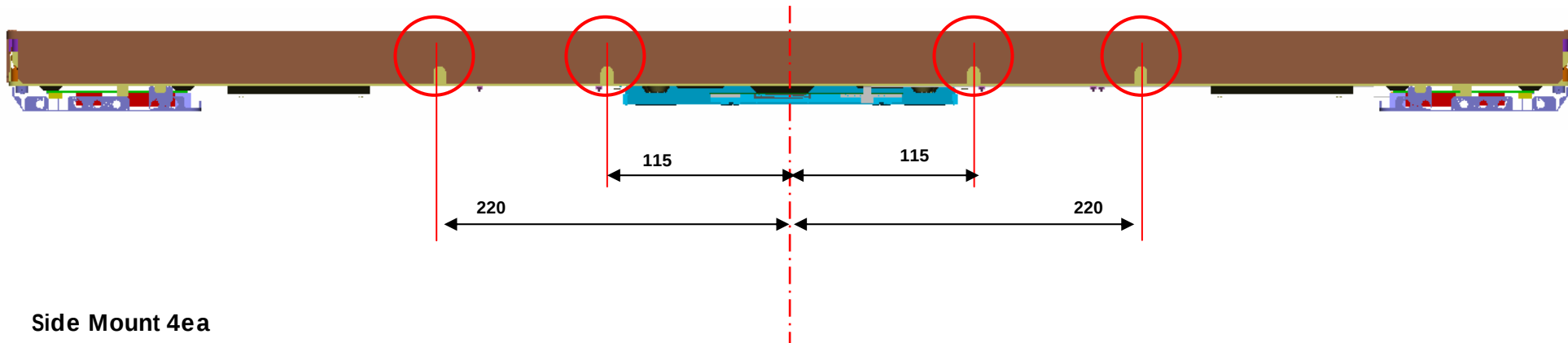


Side Mount 3ea

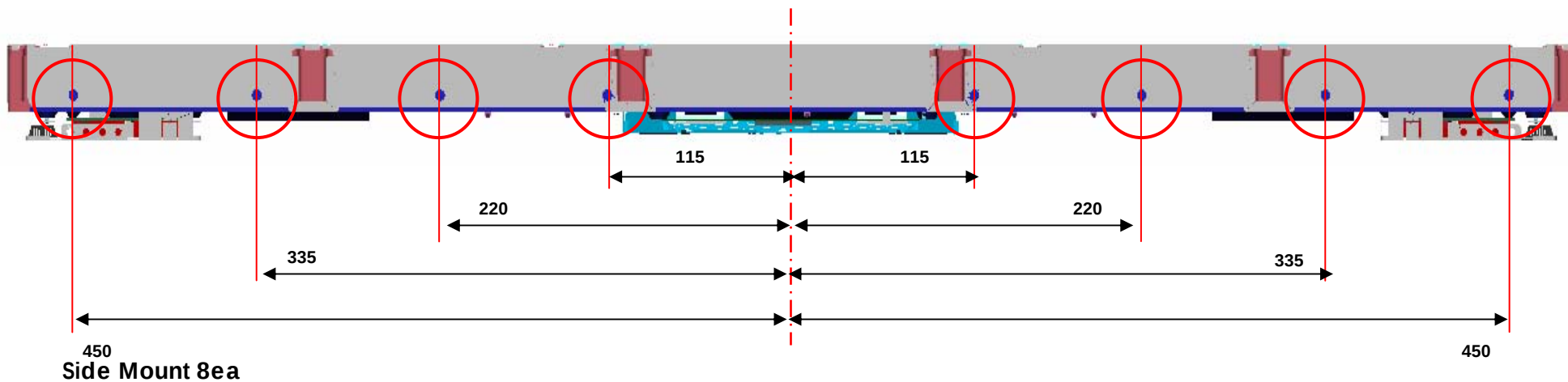
Side

Bottom Side Mount

LC420WX4-SLB1



LC420WX7-SLE1



Side

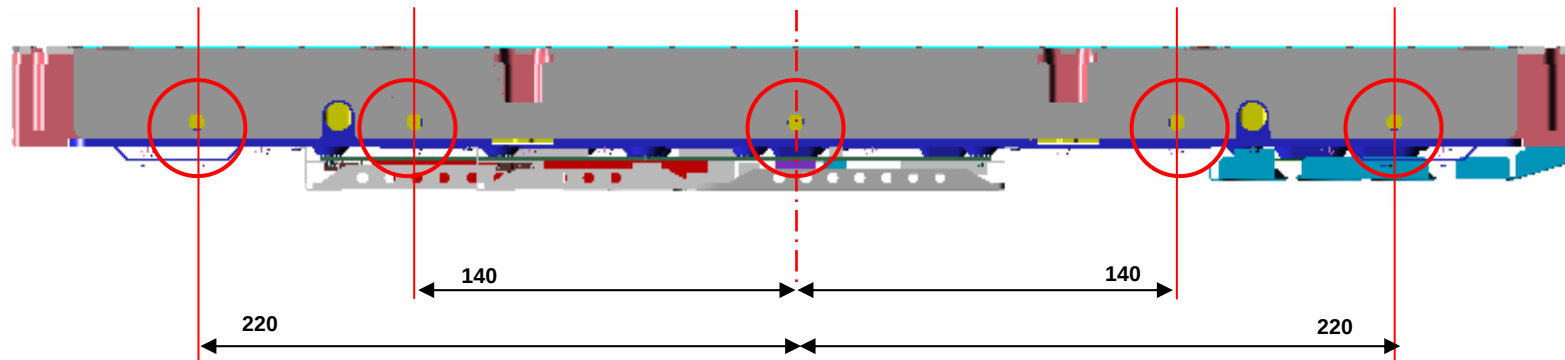
Side Mount

LC420WX4-SLB1



Non-Side Mount

LC420WX7-SLE1



Side Mount 5ea